



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/738,933	12/17/2003	Yang Kyu Lim	29936/39855	8466

4743 7590 06/10/2005

MARSHALL, GERSTEIN & BORUN LLP
233 S. WACKER DRIVE, SUITE 6300
SEARS TOWER
CHICAGO, IL 60606

EXAMINER

NGUYEN, LONG T

ART UNIT PAPER NUMBER

2816

DATE MAILED: 06/10/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/738,933

Applicant(s)

LIM, YANG KYU

Examiner

Long Nguyen

Art Unit

2816

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☒ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☐ Claim(s) ____ is/are rejected.
- 7) ☒ Claim(s) 1-14 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 17 December 2003 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
 - 2) ☐ Certified copies of the priority documents have been received in Application No. ____.
 - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, a circuit including “a second driving means for output the potential of the second external power or the ground potential to a second node according to the control signal and an output signal of the second input means” recited in claim 4; a circuit including “an NMOS transistor for keeping the potential of an input terminal of the first driving means to be the ground potential according to the control signal” recited in claim 9; and a circuit including “an NMOS transistor for keeping the potential of an input terminal of the second driving means to be the ground potential according to the control signal” recited in claim 10 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as “amended.” If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either “Replacement Sheet” or “New Sheet”

Art Unit: 2816

pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

2. Claims 1-14 are objected to because of the following informalities:

Claim 1, line 3, "the power" should be changed to --the first external power--.

Claim 1, line 5, "keeping the" should be changed to --having a--.

Claim 1, line 8, "keeping" should be changed to --having--.

Claims 2-12 are objected to because they include the informalities of claim 1.

Claim 4, line 4, "as an input" should be deleted.

Claim 4, line 6, "as an input" should be deleted.

Claim 4, line 8, "the signal of" should be deleted.

Claim 4, line 9, "the output" should be changed to --an output--.

Claim 4, line 12, "the signal of" should be deleted.

Claim 4, line 13, "the output" should be changed to --an output--.

Claim 5, line 5, "for" should be changed to --of--.

Claim 6, line 4, "for" should be changed to --of--.

Claim 7, line 3, --an output signal having-- should be inserted before "the potential" to provide antecedent basis for the output signal of the level shifter on the last line of the claim.

Claim 7, line 4, "the signal of" should be deleted.

Claim 7, line 6, "a NMOS" should be changed to --an NMOS--.

Claim 7, line 11, "the signal of" should be deleted.

Claim 7, line 12, "first" should be deleted to provide proper antecedent basis for the level shifter (see line 3 of claim 7).

Claim 8, line 4, "the signal of" should be deleted.

Claim 8, line 7, "the signal of" should be deleted.

Claim 9, line 1-2, "a NMOS" should be changed to --an NMOS--.

Claim 9, line 2, "the input" should be changed to --an input--.

Claim 10, line 1-2, "a NMOS" should be changed to --an NMOS--.

Claim 10, line 2, "the input" should be changed to --an input--.

Claim 11, line 3, --an output signal having-- should be inserted before "the potential" to provide antecedent basis for the output signal of the inverter on the last line of the claim.

Claim 11, line 4, "the signal of" should be deleted.

Claim 12, line 2, "a NMOS" should be changed to --an NMOS--.

Claim 13, line 4, "the power" should be changed to --the first external power--.

Claim 13, line 6, "keeping the" should be changed to --having a--.

Claim 13, line 7, "the ground" should be changed to --a ground--.

Claim 13, line 10, "keeping" should be changed to --having--.

Claim 14, line 4, "the power" should be changed to --the first external power--.

Claim 14, line 7, "as an input" should be deleted.

Claim 14, line 9, "as an input" should be deleted.

Claim 14, line 10, "the potential" should be changed to --a potential--.

Claim 14, line 11, "a signal of" should be deleted.

Claim 14, line 12, "the output" should be changed to --a output--.

Art Unit: 2816

Claim 14, line 16, "a signal of" should be deleted.

Claim 14, line 17, "the output" should be changed to --a output--.

Claim 14, line 26, "a signal of" should be deleted.

Appropriate correction to the above formalities is required.

Allowable Subject Matter

3. Claims 1-14 presently would be allowed if amend to overcome the above informalities.

Note that claims 4, 9 and 10 would only be allowed if corrected of the drawings is submitted to support for the limitations of claims 4, 9 and 10.

Conclusion

4. This application is in condition for allowance except for the above formal matters.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.


6. Any inquiry concerning this communication or earlier communications from the examiner should be directly to Examiner Long Nguyen whose telephone number is (571) 272-1753. The Examiner can normally be reached on Monday to Thursday from 8:00am to 6:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tim Callahan, can be reached at (571) 272-1740. The fax number for this group is (703) 872-9306.

Art Unit: 2816

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

June 7, 2005



LONG NGUYEN
PRIMARY EXAMINER